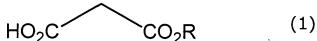
AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A compound represented by formula (1) or a salt thereof:



HO₂C CO₂R wherein R represents a group that is easily removable upon hydrolysis in vivo. (a) C1-C6 alkylcarbonyloxy C1-C6 alkyl, (b) arylcarbonyloxy C1-C6 alkyl, (c) five- to seven-membered heterocyclic carbonyloxy C1-C6 alkyl, (d) C2-C6 alkenylcarbonyloxy C1-C6 alkyl, (e) C2-C6 alkynylcarbonyloxy C1-C6 alkyl, (f) C3-C8 cycloalkylcarbonyloxy C1-C6 alkyl, (g) C1-C6 alkoxycarbonyloxy C1-C6 alkyl, (h) aryloxycarbonyloxy C1-C6 alkyl, (i) five- to seven-membered heterocyclic oxycarbonyloxy C1-C6 alkyl, (i) C2-C6 alkenyloxycarbonyloxy C1-C6 alkyl, (k) C2-C6 alkynyloxycarbonyloxy C1-C6 alkyl, (1) C3-C8 cycloalkyloxycarbonyloxy C1-C6 alkyl, (m) phthalid-3-yl, or (n) 2-oxo-5-(C1-C6 alkyl)-1,3-dioxolen-4-ylmethyl, wherein groups (a) to (n) are optionally substituted by a substituent selected from the group consisting of: C1-C6 alkyl; C3-C8 cycloalkyl; C1-C6 alkoxy; C2-C6 alkenyl; C2-C6 alkynyl; aryl optionally substituted by C1-C6 alkyl; five- to seven-membered heterocyclic group; C1-C6 alkylcarbonyloxy; C1-C6 alkoxycarbonyloxy; arylcarbonyloxy; aryloxycarbonyloxy; C1-C6 alkylthio; C2-C6 alkenylthio; and di-C1-C6 alkylamino, and said aryl represents phenyl or naphthyl.

2.	(Currently Amended) T	he compound according to claim 1, wherein R	
represents is selected from groups: (a), (b), (d), (f) to (h), (j), and (l) to (n).			
	(a) C1-C6 alkylcarbonyloxy C1-C6 alkyl,		
	(b) arylcarbonyloxy C1-C6 alkyl,		
	(c) five-to-seven-membered heterocyclic carbonyloxy-C1-C6-alkyl,		
	(d) C2-C6 alkenylcarbonyloxy C1-C6 alkyl,		
	——————————————————————————————————————		
	(f) C3-C8 cycloalkylcarbonyloxy-C1-C6 alkyl,		
	(g) C1-C6 alkoxycarbonyloxy C1-C6 alkyl,		
———— (h) aryloxycarbonyloxy C1-C6 alkyl,			
(i) five- to seven-membered heterocyclic oxycarbonyloxy C1-C6 alkyl,			
——————————————————————————————————————			
	(k) C2-C6 alkynyloxycarbonyloxy C1-C6 alkyl,		
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———— (m) phthalid-3-yl, or			
(n) 2-oxo-5 (C1-C6 alkyl) 1,3-dioxolen-4-ylmethyl,			
wherein groups (a) to (n) are optionally substituted by a substituent selected from the group			
consisting of:			
	-C1-C6-alkyl; C3-C8 cycloalkyl;	C1-C6-alkoxy; C2-C6-alkenyl; C2-C6-alkynyl; aryl	
optionally substituted by C1-C6 alkyl; five to seven membered heterocyclic group; C1-C6-			
alkylearbonyloxy; C1-C6 alkoxycarbonyloxy; arylearbonyloxy; aryloxycarbonyloxy; C1-C6			
alkylthio; C2-C6 alkenylthio; and di-C1-C6 alkylamino, and			
said aryl represents phenyl or naphthyl.			

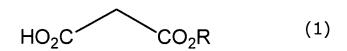
3. **(Withdrawn)** The compound according to claim 2, wherein the substituent in R is selected from the group consisting of C1-C6 alkyl, C3-C8 cycloalkyl, C1-C6 alkoxy, C2-C6 alkenyl, C2-C6 alkynyl, aryl, and five- to seven-membered heterocyclic group.

- 4. **(Withdrawn)** The compound according to claim 2, wherein the substituent in R represents C1-C4 alkyl or C3-C6 cycloalkyl.
- 5. (Original) The compound according to claim 2, wherein R represents
- (a') C1-C6 alkylcarbonyloxy C1-C6 alkyl optionally substituted by C3-C8 cycloalkyl; or by aryl optionally substituted by C1-C6 alkyl,
- (b') arylcarbonyloxy C1-C6 alkyl in which the aryl part is optionally substituted by C1-C6 alkyl,
 - (d') unsubstituted C2-C6 alkenylcarbonyloxy C1-C6 alkyl,
 - (f) unsubstituted C3-C8 cycloalkylcarbonyloxy C1-C6 alkyl,
- (g') C1-C6 alkoxycarbonyloxy C1-C6 alkyl optionally substituted by C3-C8 cycloalkyl; or by aryl optionally substituted by C1-C6 alkyl,
- (h') aryloxycarbonyloxy C1-C6 alkyl in which the aryl part is optionally substituted by C1-C6 alkyl,
 - (j') unsubstituted C2-C6 alkenyloxycarbonyloxy C1-C6 alkyl,
 - (l') unsubstituted C3-C8 cycloalkyloxycarbonyloxy C1-C6 alkyl,
 - (m') unsubstituted phthalid-3-yl, or
 - (n') unsubstituted 2-oxo-5-(C1-C6 alkyl)-1,3-dioxolen-4-ylmethyl.
- 6. (Original) The compound according to claim 2, wherein R represents
 - (a") C1-C6 alkylcarbonyloxy C1-C2 alkyl optionally substituted by cyclohexyl,
- (b") phenylcarbonyloxy C1-C2 alkyl in which the phenyl part is optionally substituted by C1-C4 alkyl,
 - (g") C1-C6 alkoxycarbonyloxy C1-C2 alkyl optionally substituted by cyclohexyl,
- (h") phenyloxycarbonyloxy C1-C2 alkyl in which the phenyl part is optionally substituted by C1-C4 alkyl,
 - (I") unsubstituted C3-C6 cycloalkyloxycarbonyloxy C1-C2 alkyl, or
 - (n") unsubstituted 2-oxo-5-(C1-C4 alkyl)-1,3-dioxolen-4-ylmethyl.

7. **(Original)** The compound according to claim 1, which is selected from the following group of compounds:

monoacetyloxymethyl malonate, monopivaloyloxymethyl malonate, mono-2,4-dimethylbenzoyloxymethyl malonate, mono-1-(ethoxycarbonyloxy)ethyl malonate, mono-1-(isopropoxycarbonyloxy)ethyl malonate, monocyclohexyloxycarbonyloxymethyl malonate, mono-1-(cyclohexyloxycarbonyloxy)ethyl malonate, mono-1-(phenoxycarbonyloxy)ethyl malonate, mono-2-oxo-5-methyl-1,3-dioxolen-4-ylmethyl malonate, mono-1-(2,2-dimethylpropoxycarbonyloxy)ethyl malonate, mono-1-(2-cyclohexylethoxycarbonyloxy)ethyl malonate, mono-1-(isobutoxycarbonyloxy)ethyl malonate, monoisopropoxycarbonyloxymethyl malonate, monoisopentoxycarbonyloxymethyl malonate, monoisobutylcarbonyloxymethyl malonate, and mono-1-ethylpropylcarbonyloxymethyl malonate.

8. **(Withdrawn)** A process for producing a compound represented by formula (1) or a salt thereof:



said process comprising the step of reacting malonic acid with a compound represented by formula (2) in the presence of a base:

RX (2)

wherein

R represents a group that, in the form of an ester group -COOR, can be degraded and is easily removable in vivo; and

X represents a halogen atom.

- 9. (Withdrawn) The process according to claim 8, wherein R represents
 - (a) C1-C6 alkylcarbonyloxy C1-C6 alkyl,
 - (b) arylcarbonyloxy C1-C6 alkyl,
 - (c) five- to seven-membered heterocyclic carbonyloxy C1-C6 alkyl,
 - (d) C2-C6 alkenylcarbonyloxy C1-C6 alkyl,
 - (e) C2-C6 alkynylcarbonyloxy C1-C6 alkyl,
 - (f) C3-C8 cycloalkylcarbonyloxy C1-C6 alkyl,
 - (g) C1-C6 alkoxycarbonyloxy C1-C6 alkyl,
 - (h) aryloxycarbonyloxy C1-C6 alkyl,
 - (i) five- to seven-membered heterocyclic oxycarbonyloxy C1-C6 alkyl,
 - (j) C2-C6 alkenyloxycarbonyloxy C1-C6 alkyl,
 - (k) C2-C6 alkynyloxycarbonyloxy C1-C6 alkyl,
 - (l) C3-C8 cycloalkyloxycarbonyloxy C1-C6 alkyl,
 - (m) phthalid-3-yl, or
 - (n) 2-oxo-5-(C1-C6 alkyl)-1,3-dioxolen-4-ylmethyl,

wherein groups (a) to (n) are optionally substituted by a substituent selected from the group consisting of:

C1-C6 alkyl; C3-C8 cycloalkyl; C1-C6 alkoxy; C2-C6 alkenyl; C2-C6 alkynyl; aryl optionally substituted by C1-C6 alkyl; five- to seven-membered heterocyclic group; C1-C6 alkylcarbonyloxy; C1-C6 alkoxycarbonyloxy; arylcarbonyloxy; aryloxycarbonyloxy; C1-C6 alkylthio; C2-C6 alkenylthio; and di-C1-C6 alkylamino, and

said aryl represents phenyl or naphthyl.

- 10. (Withdrawn) The process according to claim 9, wherein R represents
- (a') C1-C6 alkylcarbonyloxy C1-C6 alkyl optionally substituted by C3-C8 cycloalkyl; or by aryl optionally substituted by C1-C6 alkyl,
- (b') arylcarbonyloxy C1-C6 alkyl in which the aryl part is optionally substituted by C1-C6 alkyl,
 - (d') unsubstituted C2-C6 alkenylcarbonyloxy C1-C6 alkyl,
 - (f) unsubstituted C3-C8 cycloalkylcarbonyloxy C1-C6 alkyl,
- (g') C1-C6 alkoxycarbonyloxy C1-C6 alkyl optionally substituted by C3-C8 cycloalkyl; or by aryl optionally substituted by C1-C6 alkyl,
- (h') aryloxycarbonyloxy C1-C6 alkyl in which the aryl part is optionally substituted by C1-C6 alkyl,
 - (j') unsubstituted C2-C6 alkenyloxycarbonyloxy C1-C6 alkyl,
 - (l') unsubstituted C3-C8 cycloalkyloxycarbonyloxy C1-C6 alkyl,
 - (m') unsubstituted phthalid-3-yl, or
 - (n') unsubstituted 2-oxo-5-(C1-C6 alkyl)-1,3-dioxolen-4-ylmethyl.
- 11. (Withdrawn) The process according to claim 9, wherein R represents
 - (a") C1-C6 alkylcarbonyloxy C1-C2 alkyl optionally substituted by cyclohexyl,
- (b") phenylcarbonyloxy C1-C2 alkyl in which the phenyl part is optionally substituted by C1-C4 alkyl,
 - (g") C1-C6 alkoxycarbonyloxy C1-C2 alkyl optionally substituted by cyclohexyl,
- (h") phenyloxycarbonyloxy C1-C2 alkyl in which the phenyl part is optionally substituted by C1-C4 alkyl,
 - (l") unsubstituted C3-C6 cycloalkyloxycarbonyloxy C1-C2 alkyl, or
 - (n") unsubstituted 2-oxo-5-(C1-C4 alkyl)-1,3-dioxolen-4-ylmethyl.
- 12. (Withdrawn) The process according to claim 8, wherein the compound

represented by formula (1) is selected from the following group of compounds:

monoacetyloxymethyl malonate,

monopivaloyloxymethyl malonate,

mono-2,4-dimethylbenzoyloxymethyl malonate,

mono-1-(ethoxycarbonyloxy)ethyl malonate,

mono-1-(isopropoxycarbonyloxy)ethyl malonate,

monocyclohexyloxycarbonyloxymethyl malonate,

mono-1-(cyclohexyloxycarbonyloxy)ethyl malonate,

mono-1-(phenoxycarbonyloxy)ethyl malonate,

mono-2-oxo-5-methyl-1,3-dioxolen-4-ylmethyl malonate,

mono-1-(2,2-dimethylpropoxycarbonyloxy)ethyl malonate,

mono-1-(2-cyclohexylethoxycarbonyloxy)ethyl malonate,

mono-1-(isobutoxycarbonyloxy)ethyl malonate,

monoisopropoxycarbonyloxymethyl malonate,

monoisopentoxycarbonyloxymethyl malonate,

monoisobutylcarbonyloxymethyl malonate, and

mono-1-ethylpropylcarbonyloxymethyl malonate.

- 13. **(Withdrawn)** The process according to claim 8, wherein said base is triethylamine, N,N-diisopropylethylamine, or 2,6-lutidine.
- 14. (Withdrawn) The process according to claim 8, wherein said reaction is carried out in an aprotic polar solvent.
- 15. **(Withdrawn)** The process according to claim 14, wherein said aprotic polar solvent is tetrahydrofuran or acetonitrile.
- 16. (Withdrawn) The process according to claim 8, wherein, in the reaction, a

compound represented by formula (3) is further added:

$$R^{1}R^{2}R^{3}R^{4}N^{+}X^{-}$$
 (3)

wherein

X represents a halide ion; and

R¹ to R⁴, which may be the same or different, represent

C1-C6 alkyl which may combine with any of R1 to R4 to form a ring,

aryl optionally substituted by C1-C6 alkyl,

aryl C1-C6 alkyl in which the aryl part is optionally substituted by C1-C6 alkyl,

C3-C8 cycloalkyl C1-C6 alkyl,

C3-C8 cycloalkyl,

C2-C6 alkenyl, or

C2-C6 alkynyl.

- 17. **(Withdrawn)** The process according to claim 16, wherein the compound represented by formula (3) is tetra-n-butylammonium chloride, N,N-diethylpiperidinium chloride, or benzyltriethylammonium chloride.
- 18. **(Withdrawn)** A process for producing a prodrug compound having an ester group -COOR as at least one of substituents,

said process comprising the step of introducing a -COOR group into a precursor compound of said prodrug compound using a compound represented by formula (1) or a salt thereof:

$$HO_2C$$
 CO_2R (1)

wherein R represents a group that is easily removable upon hydrolysis in vivo.

19. **(Withdrawn)** The process according to claim 18, wherein the -COOR group is introduced into the precursor compound by reacting

a magnesium malonate represented by formula (4)

$$Mg(O_2CCH_2CO_2R)_2$$
 (4)

wherein R represents a group that is easily removable upon hydrolysis in vivo, obtained by reacting the compound represented by formula (1) or a salt thereof with a magnesium salt in an organic solvent

with the precursor compound of said prodrug compound.

- 20. **(Withdrawn)** The process according to claim 18, wherein said prodrug compound is a prodrug of an antibacterial carbapenem compound which can be administered orally.
- 21. (Withdrawn) The process according to claim 18, wherein R represents
 - (a) C1-C6 alkylcarbonyloxy C1-C6 alkyl,
 - (b) arylcarbonyloxy C1-C6 alkyl,
 - (c) five- to seven-membered heterocyclic carbonyloxy C1-C6 alkyl,
 - (d) C2-C6 alkenylcarbonyloxy C1-C6 alkyl,
 - (e) C2-C6 alkynylcarbonyloxy C1-C6 alkyl,
 - (f) C3-C8 cycloalkylcarbonyloxy C1-C6 alkyl,
 - (g) C1-C6 alkoxycarbonyloxy C1-C6 alkyl,
 - (h) aryloxycarbonyloxy C1-C6 alkyl,
 - (i) five- to seven-membered heterocyclic oxycarbonyloxy C1-C6 alkyl,
 - (j) C2-C6 alkenyloxycarbonyloxy C1-C6 alkyl,
 - (k) C2-C6 alkynyloxycarbonyloxy C1-C6 alkyl,
 - (1) C3-C8 cycloalkyloxycarbonyloxy C1-C6 alkyl,
 - (m) phthalid-3-yl, or
 - (n) 2-oxo-5-(C1-C6 alkyl)-1,3-dioxolen-4-ylmethyl,

wherein groups (a) to (n) are optionally substituted by a substituent selected from the group consisting of:

C1-C6 alkyl; C3-C8 cycloalkyl; C1-C6 alkoxy; C2-C6 alkenyl; C2-C6 alkynyl; aryl optionally substituted by C1-C6 alkyl; five- to seven-membered heterocyclic group; C1-C6 alkylcarbonyloxy; C1-C6 alkoxycarbonyloxy; arylcarbonyloxy; aryloxycarbonyloxy; C1-C6 alkylthio; C2-C6 alkenylthio; and di-C1-C6 alkylamino, and said aryl represents phenyl or naphthyl.

- 22. (Withdrawn) The process according to claim 21, wherein R represents
 - (a") C1-C6 alkylcarbonyloxy C1-C2 alkyl optionally substituted by cyclohexyl,
- (b") phenylcarbonyloxy C1-C2 alkyl in which the phenyl part is optionally substituted by C1-C4 alkyl,
 - (g") C1-C6 alkoxycarbonyloxy C1-C2 alkyl optionally substituted by cyclohexyl,
- (h") phenyloxycarbonyloxy C1-C2 alkyl in which the phenyl part is optionally substituted by C1-C4 alkyl,
 - (l") unsubstituted C3-C6 cycloalkyloxycarbonyloxy C1-C2 alkyl, or
 - (n") unsubstituted 2-oxo-5-(C1-C4 alkyl)-1,3-dioxolen-4-ylmethyl.
- 23. **(Withdrawn)** The process according to claim 18, wherein the compound represented by formula (1) is selected from the following group of compounds:

monoacetyloxymethyl malonate,

monopivaloyloxymethyl malonate,

mono-2,4-dimethylbenzoyloxymethyl malonate,

mono-1-(ethoxycarbonyloxy)ethyl malonate,

mono-1-(isopropoxycarbonyloxy)ethyl malonate,

monocyclohexyloxycarbonyloxymethyl malonate,

mono-1-(cyclohexyloxycarbonyloxy)ethyl malonate,

mono-1-(phenoxycarbonyloxy)ethyl malonate,

mono-2-oxo-5-methyl-1,3-dioxolen-4-ylmethyl malonate, mono-1-(2,2-dimethylpropoxycarbonyloxy)ethyl malonate, mono-1-(2-cyclohexylethoxycarbonyloxy)ethyl malonate, mono-1-(isobutoxycarbonyloxy)ethyl malonate, monoisopropoxycarbonyloxymethyl malonate, monoisopentoxycarbonyloxymethyl malonate, monoisobutylcarbonyloxymethyl malonate, and mono-1-ethylpropylcarbonyloxymethyl malonate.